Amendments to the Drawings: These Drawing figures will replace all other prior versions of Drawings in the Application.

Listing of Drawings

(Original) Figure 1

(Replacement Drawing) Figure 2

(Original) Figure 3

(Original) Figure 4

(Original) Figure 5

(Original) Figure 6

(Original) Figure 7

(Original) Figure 8

(Replacement Drawing) Figure 9

(Replacement Drawing) Figure 10

(Replacement Drawing) Figure 11

(Replacement Drawing) Figure 12

(Replacement Drawing) Figure 13

(Original) Figure 14

REMARKS

By the present amendment the following actions have been taken in response to the Office Action Summary.

1. Drawing reference characters #235 and 245 have been referenced in the specification per 37 CFR 1.84 (p) (5). Fuel and oxidizer channels have been interchange to conform to #235 and # 245. The electrodes are now referred to in the specification as the anode and cathode metallic conductor structures.

   Corrected drawing sheets including the (Original Sheet) and (Replacement Sheet) for Figures 2, 9, 10, 11, 12 and 13 are included to conform to 37 CFR 1.121 (d) and all previously unreferenced characters have been referenced in the Specification per 37 CFR 1.121 (b).

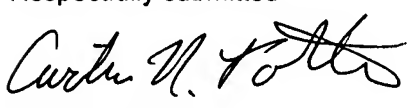
2. Per 35 U.S.C. 112, [0070] and [0071] have been added as subject matter pursuant to the specific invention.

3. All claims have been reviewed, the terminology of the structures fabricated has been made consistent on an antecedent basis.

4. Is noted.

5. Claims have been amended to limit the invention to a fuel cell electrode assembly consisting of structures described. The invention is not intended to be used as a functioning fuel cell unless balance of plant devices are attached at the fuel and oxidizer manifold supply and exhaust structures. The crucial issue for the applicants is to secure some intellectual property protection on the process of running the fuel cell electrode assembly on a conventional semiconductor processing line by virtue of being able to fabricate all structures on one side of a substrate in a continuous process. The second crucial issue is to protect intellectual property associated with the anode and cathode electrode structures and ion exchange membrane structures which provide an aspect ratio of thickness to width of greater than one. Such aspect ratio provides for a larger anode to cathode area than would be possible in the conventional planar arrangement.

Respectfully submitted



Curtis N. Potter

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner of Patents
PO Box 1450
Alexandria, VA 22313-1450

On August 4, 2007

Signature

Curtis N. Potter
Typed or printed name of person signing certificate

(512) 997-7781
Telephone Number

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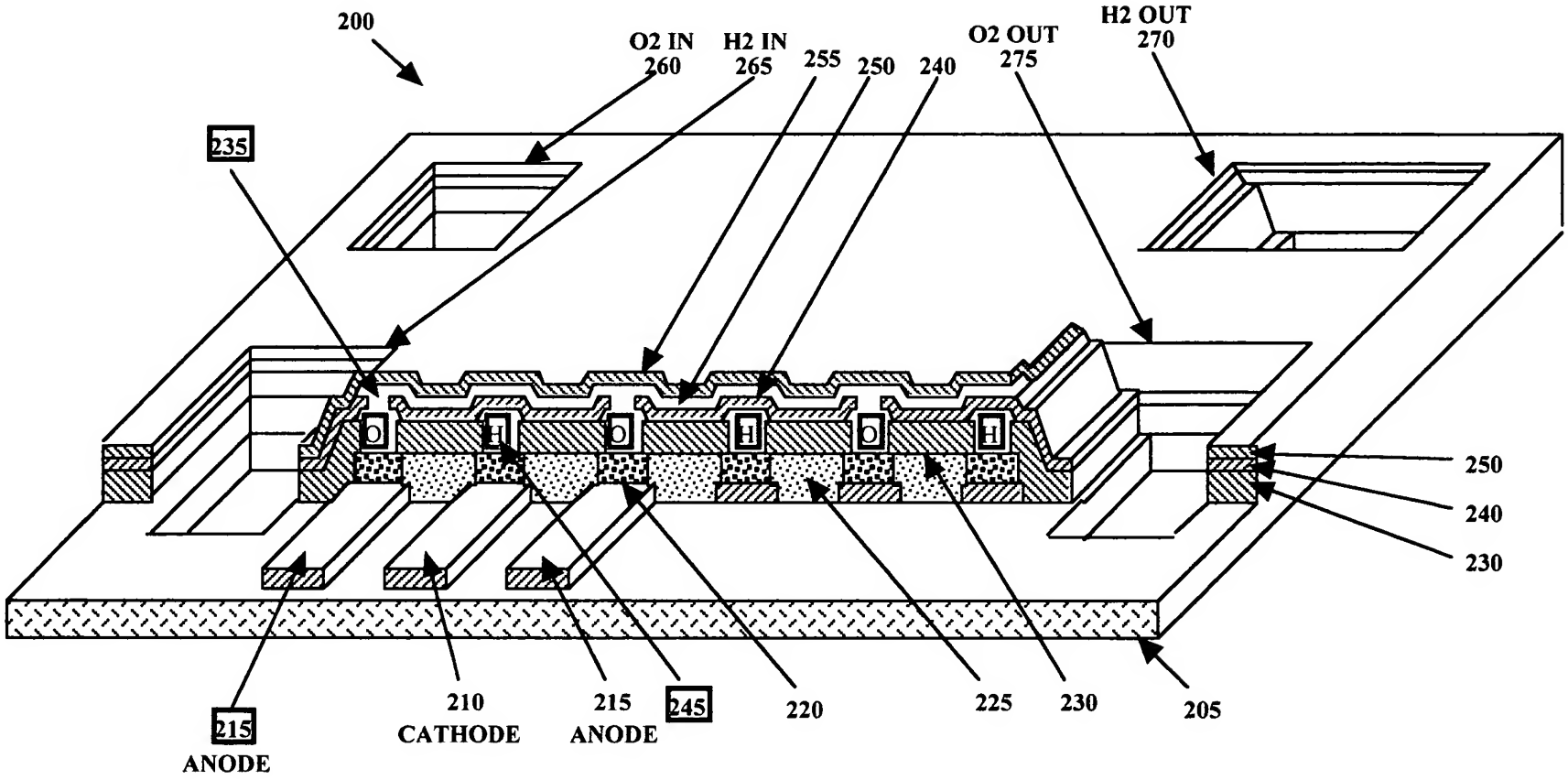

FIG. 2

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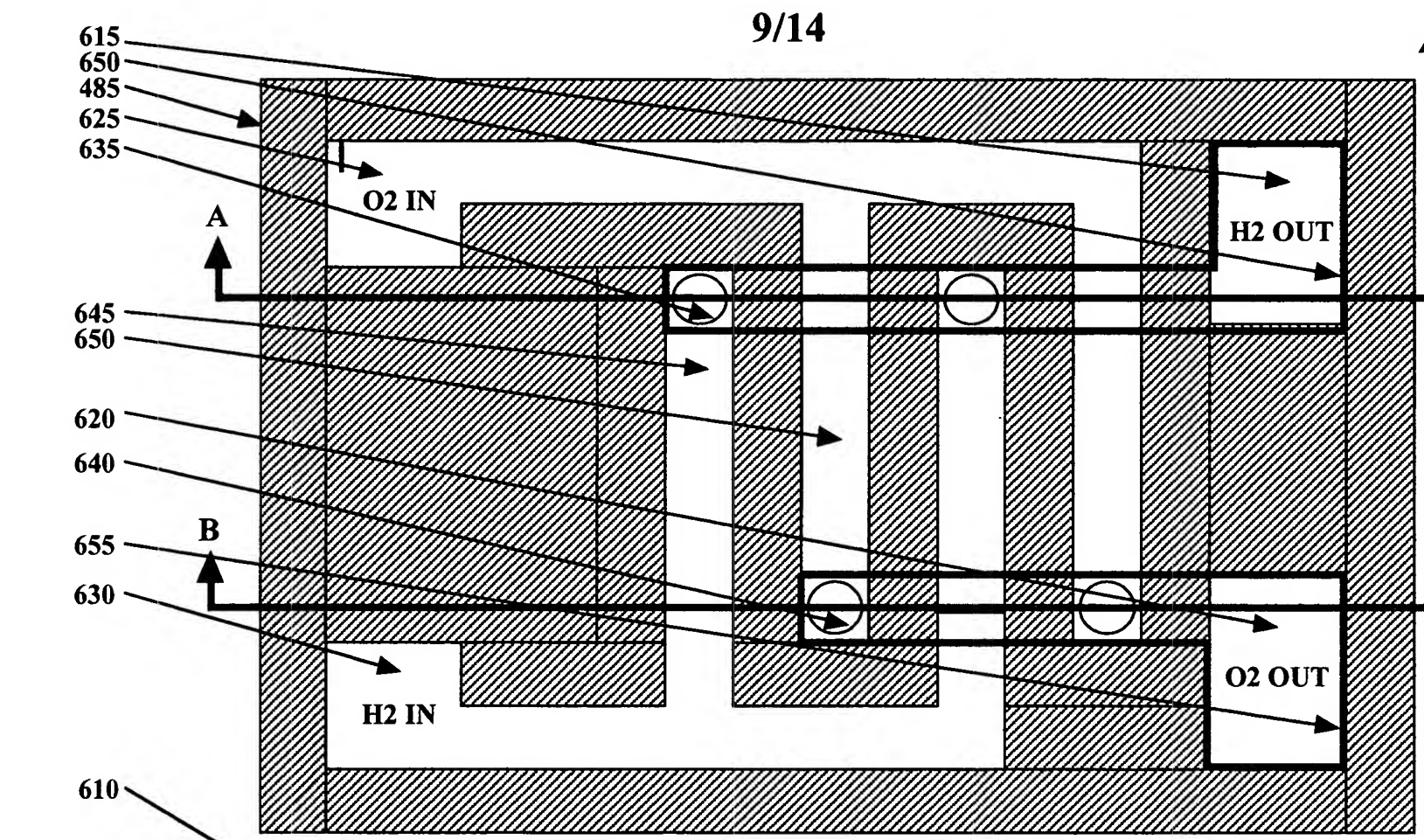

FIG. 9a

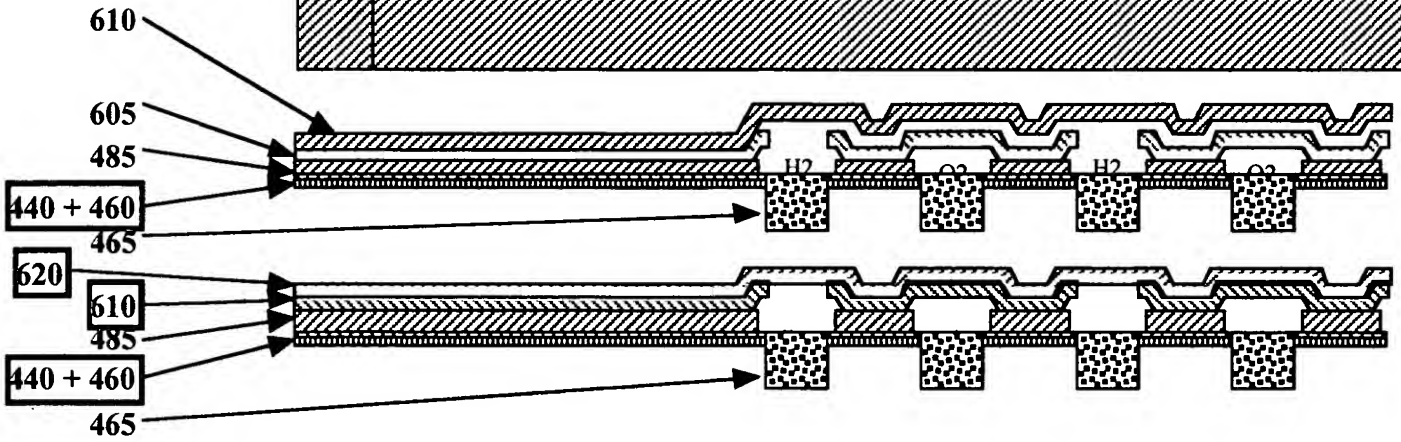

FIG. 9b
SECTION A - A

FIG. 9c
SECTION B - B

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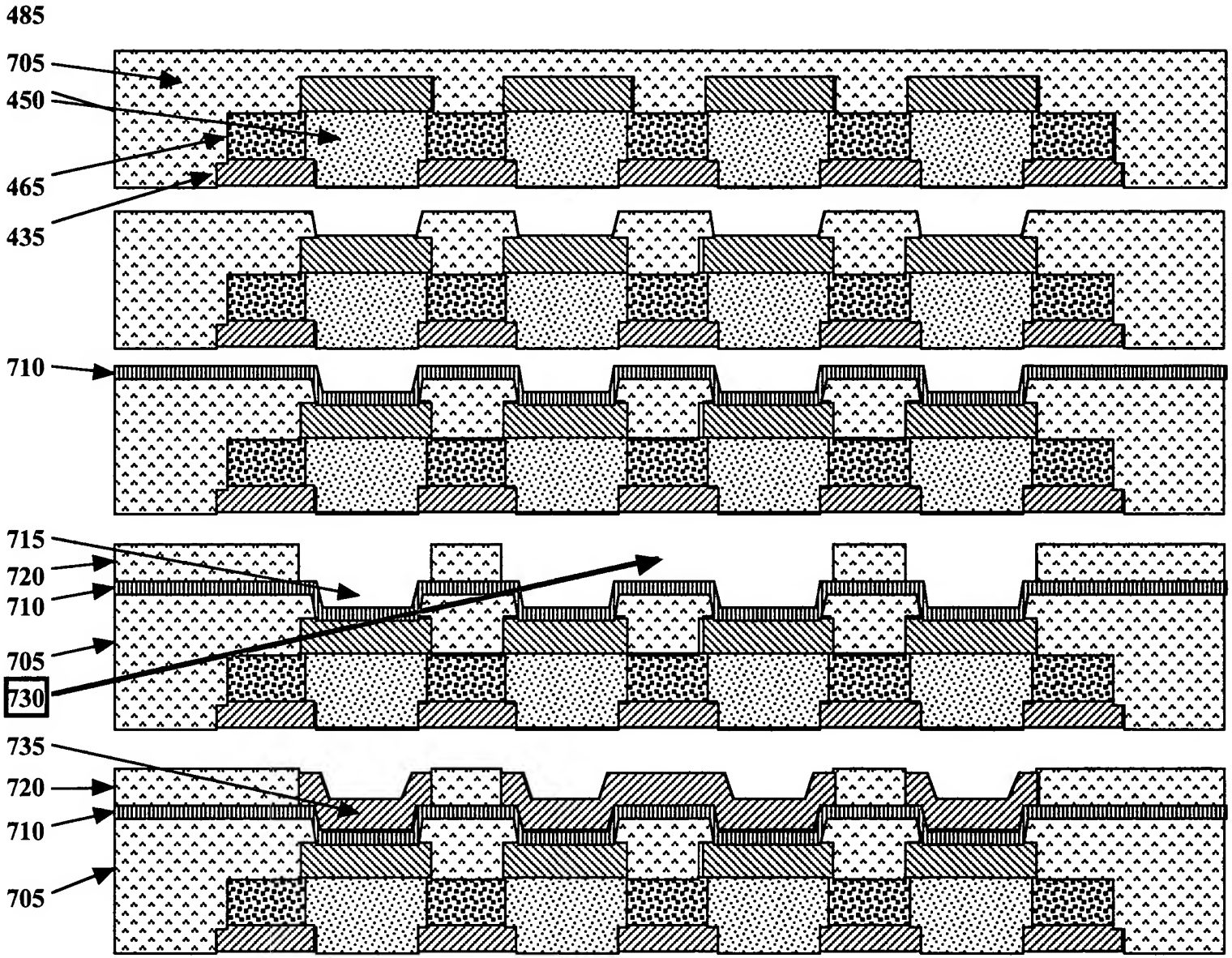

FIG. 10a

FIG. 10b

FIG. 10c

FIG. 10d

FIG. 10e

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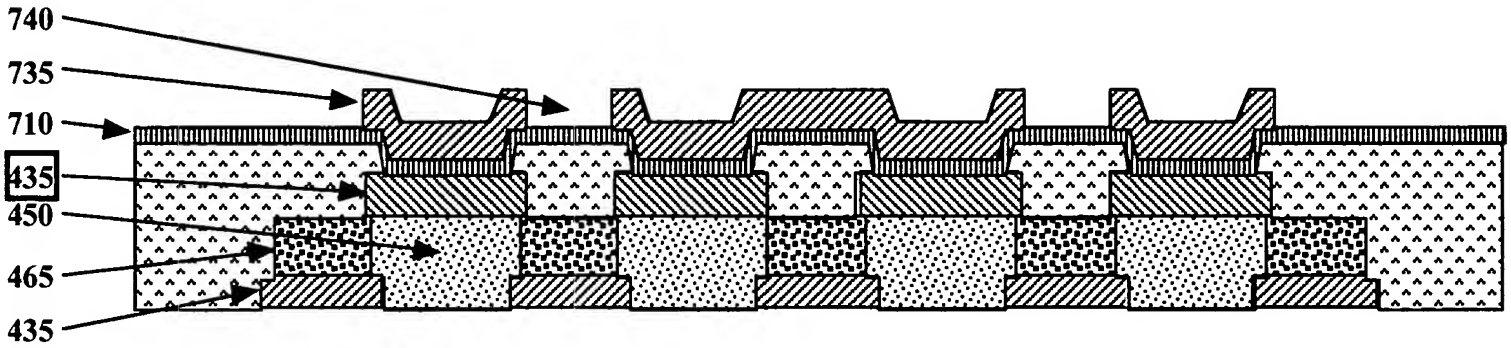

FIG. 11a

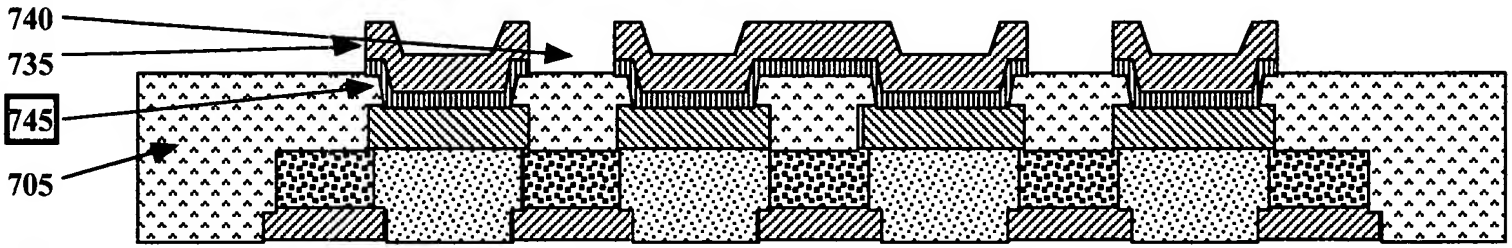

FIG. 11b

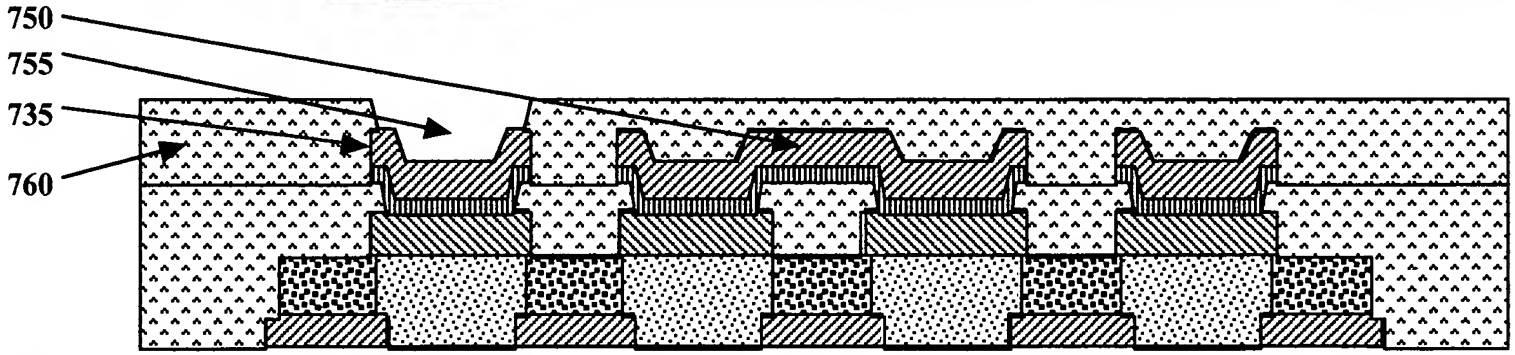

FIG. 11c

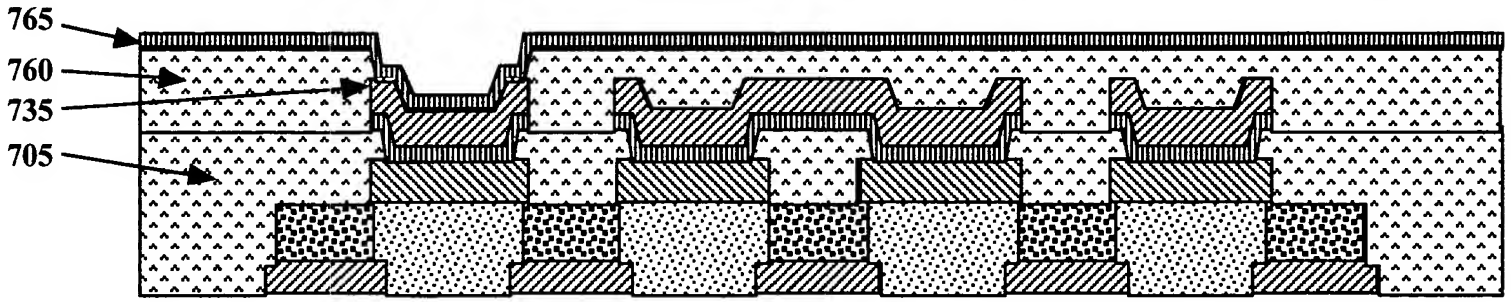

FIG. 11d

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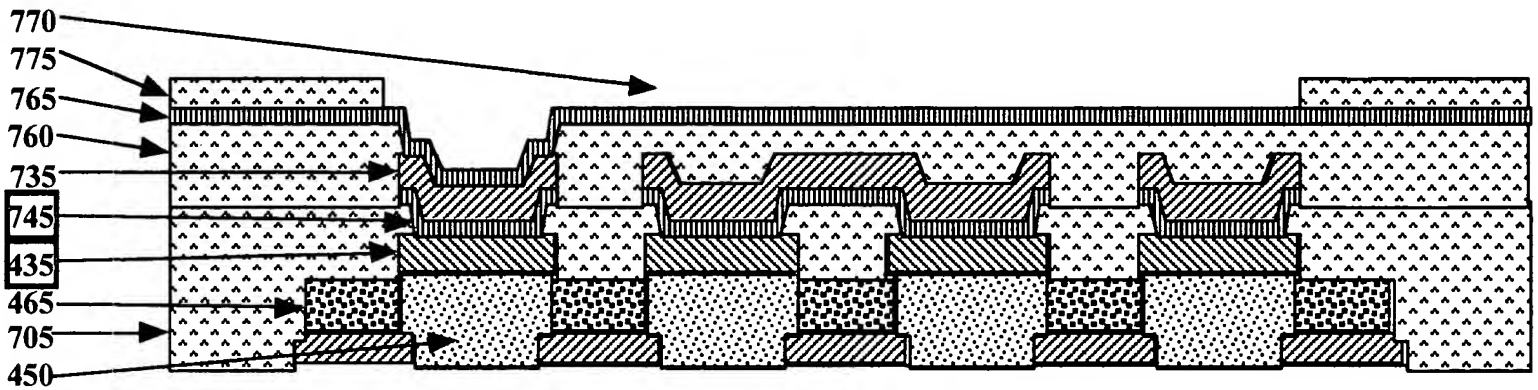

FIG. 12a

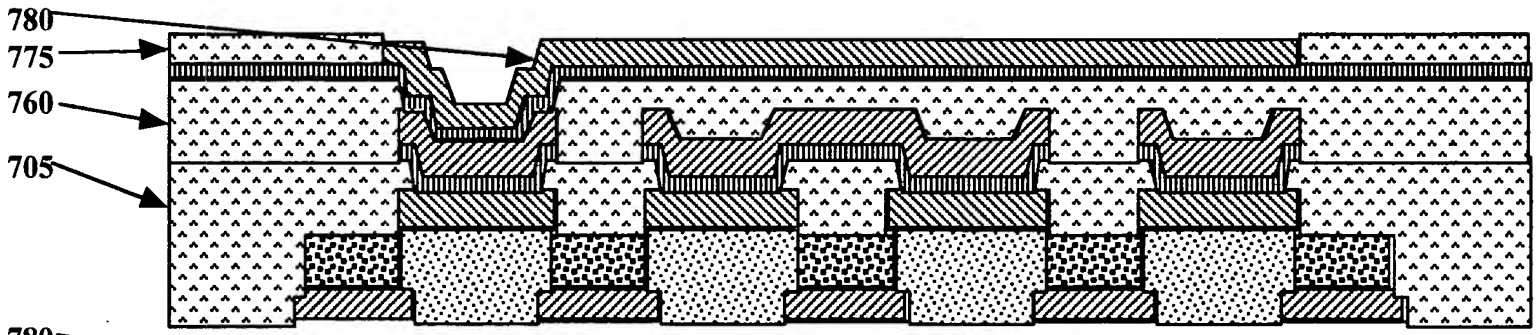

FIG. 12b

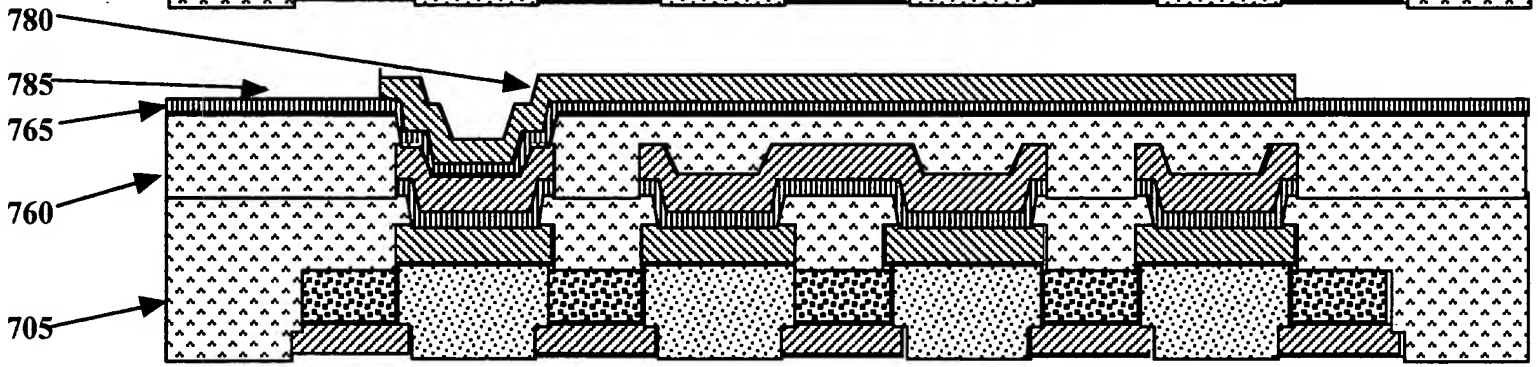

FIG. 12c

ORIGINAL SHEET Curtis N. Potter 10/737,436 **13/14**

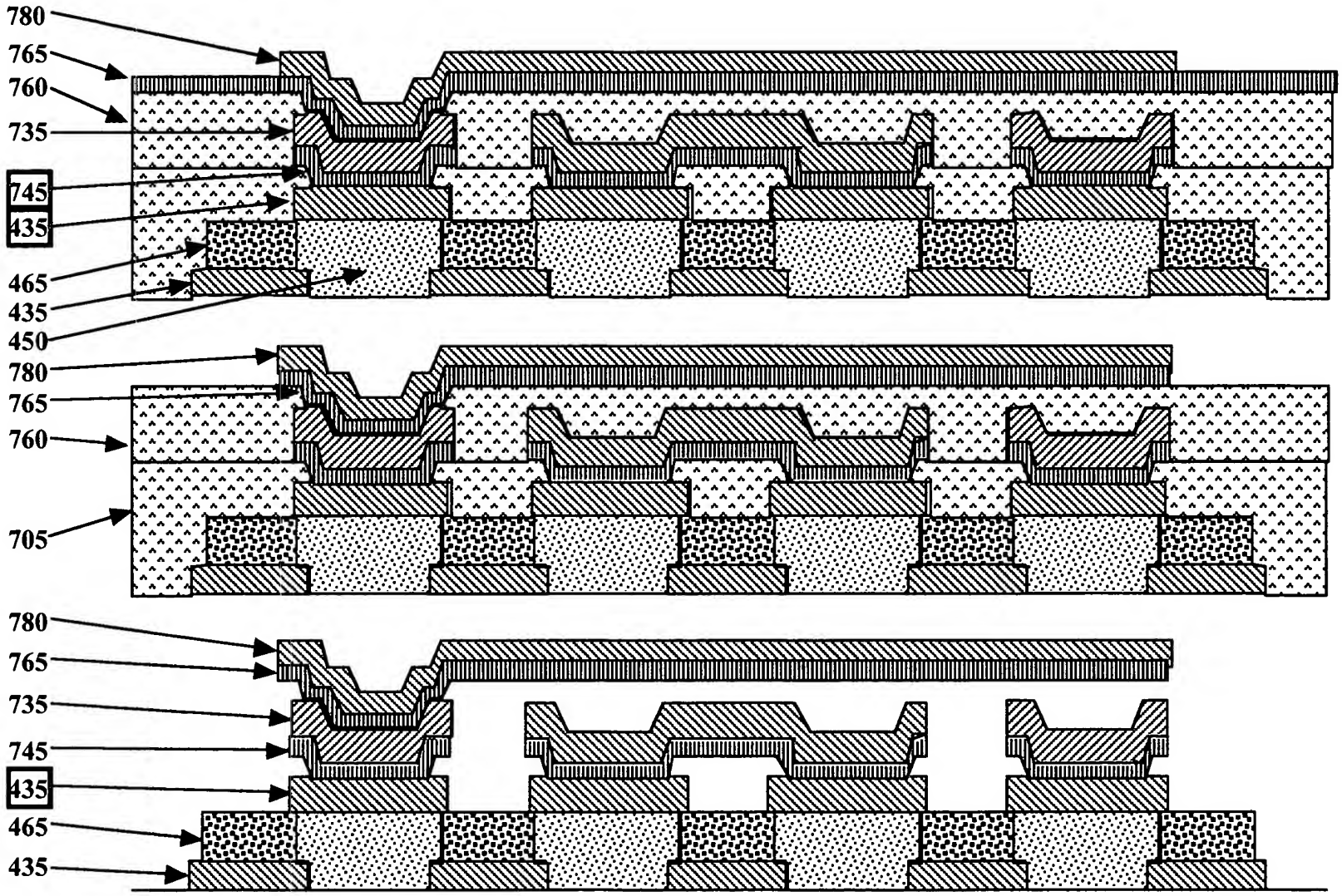

FIG. 13a

FIG. 13b

FIG. 13c